UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/713,524	11/15/2000	Ayad Beghdad		3620
2512 PERMAN & G	7590 02/17/200 REEN	EXAMINER		
425 POST ROAD			MEI, XU	
FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			02/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summers	09/713,524	BEGHDAD, AYAD				
Office Action Summary	Examiner	Art Unit				
	Xu Mei	2614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under L	x parte quayre, 1000 O.B. 11, 40	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>46-65</u> is/are pending in the application	☑ Claim(s) <u>46-65</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>46-55</u> is/are rejected.	· <u> </u>					
7)⊠ Claim(s) <u>56-65</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 09/713,524 Page 2

Art Unit: 2614

DETAILED ACTION

1. This communication is responsive to the Notice of Withdrawal form Issue mailed 02/02/2009.

2. The indicated allowability of claims 46-55 are withdrawn in view of the newly discovered 101 problem to the claims. Rejections based on **35 USC § 101** follow.

Claim Objections

3. Claims 56-65 are objected to because of the following informalities: the preamble of independent claims 56 and 61 fails to specify the claimed subject matter by just broadly reciting "an apparatus". Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 46-55 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 46-55 are directed to "a method of suppressing noise in a desired signal accompanied by noise" which does not fall into one of the enumerated four categories

Application/Control Number: 09/713,524

Art Unit: 2614

of patent eligible subject matter recited in 35 U.S.C. 101 (process, machine, manufacture, or composition of matter).

Claims 46-55 are not directed toward:

1) a process (the claim subject matter is toward calculations pertaining to periodogram, i.e., short term average, of a desired signal and the accompanied noise; and generating a noise reducing filter operative on the basic of a [calculated] ratio); a statutory "process" under 35 USC 101 must (a) be tied to another statutory category (such as a manufacture or a machine), claims 46-55 does not tie to any statutory apparatus or machine since the filtering function (i.e., generating a noise reducing filter) could have been done in software; and claims 46-55 neither transform underlying subject matter nor positively recite structure associated with another statutory category, and therefore do not define a statutory process; or (b) transform underlying subject matter (such as an article or material) to a different state or thing.

Page 3

- 2) a machine; there are no claim elements towards an appropriate apparatus, e.g. the elements of a device that would perform the claim steps.
- 3) a manufacture (no claim elements pertain to an output product, e.g., the claim scope pertained to a method of suppressing noise in a desired signal accompanied by noise);
- 4) a composition of matter (e.g. *claim elements are toward signal calculation*, and not a composition of matter).

Application/Control Number: 09/713,524

Art Unit: 2614

Furthermore, the claims are directed to a method which suppressing noise in a desired signal accompanied by noise, and as claimed, is toward calculations pertaining to periodogram, i.e., short term average, of a desired signal and the accompanied noise; and generating a noise reducing filter operative on the basic of a [calculated] ratio, where the claims do not produce a useful, tangible, and concrete result. If the acts of a claimed process manipulate only numbers, abstract concepts or ideas, or signals representing any of the foregoing, the acts are not being applied to appropriate subject matter (Benson, 409 U.S. at 71-72, 175, USPQ at 676). Furthermore, claims define nonstatutory processes if they simply manipulate abstract ideas (Warmerdam, 33 F.3d at 1360, 31 USPQ2d at 1759). As for guidance to areas of statutory subject matter, see 35 U.S.C. 101 Interim Guidelines (with emphasis of the Clarification of Interim Guidelines For Examination of Patent Applications for Subject Matter Eligibility); as an example, in Alappat, the claimed output smooth waveform (consisted of lighting pixels on an oscilloscope/display) is a useful, concrete, tangible, final result; in Arrhythmia, the claimed useful, concrete, tangible, final result represented the condition of a patient's heart; in State Street, the claimed useful, concrete, tangible, final result was data output that represented a final share price momentarily fixed for recording and reporting purposes and even accepted and relied upon by regulatory authorities and in subsequent trades.

Page 4

Application/Control Number: 09/713,524 Page 5

Art Unit: 2614

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed

to Xu Mei whose telephone number is 571-272-7523. The examiner can normally be reached on maxi flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can

be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or

Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Xu Mei/

Primary Examiner, Art Unit 2614

02/10/2009